RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/578,938 _____
Source: _____ IFWP _____
Date Processed by STIC: _____ 05/19/2006 _____

ENTERED

IFWP

RAW SEQUENCE LISTING DATE: 05/19/2006
PATENT APPLICATION: US/10/578,938 TIME: 08:47:22

Input Set : A:\14167-2 US Sequence Listing.txt
Output Set: N:\CRF4\05192006\J578938.raw

```
   5 <110> APPLICANT: Klussmann, Sven
   6        Helmling, Steffen
   7        Eulberg, Dirk
   8        Maasch, Christian
   9        Buchner, Klaus
  11 <120> TITLE OF INVENTION: Nucleic Acids Specifically Binding Bioactive Ghrelin
  13 <130> FILE REFERENCE: 14167*2
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/578,938
C--> 15 <141> CURRENT FILING DATE: 2006-05-09
  15 <150> PRIOR APPLICATION NUMBER: PCT/EP04/012739
  16 <151> PRIOR FILING DATE: 2004-11-10
  18 <150> PRIOR APPLICATION NUMBER: EP 03025743.0
  19 <151> PRIOR FILING DATE: 2003-11-10
  21 <160> NUMBER OF SEQ ID NOS: 21
  23 <170> SOFTWARE: PatentIn version 3.1
  25 <210> SEQ ID NO: 1
  26 <211> LENGTH: 48
  27 <212> TYPE: RNA
  28 <213> ORGANISM: Artificial
  30 <220> FEATURE:
  31 <221> NAME/KEY: misc_feature
  32 <223> OTHER INFORMATION: consensus sequence L-NOX-B11
  34 <220> FEATURE:
  35 <221> NAME/KEY: misc_feature
  36 <223> OTHER INFORMATION: ghrelin binder consensus sequence L-NOX-B11
  38 <220> FEATURE:
  39 <221> NAME/KEY: misc_feature
  40 <222> LOCATION: (7)..(7)
  41 <223> OTHER INFORMATION: n is any of a, g, c and u
  43 <220> FEATURE:
  44 <221> NAME/KEY: misc_feature
  45 <222> LOCATION: (13)..(13)
  46 <223> OTHER INFORMATION: n is any of a, g, c and u
  48 <220> FEATURE:
  49 <221> NAME/KEY: misc_feature
  50 <222> LOCATION: (19)..(19)
  51 <223> OTHER INFORMATION: n is any of a, g, c and u
  53 <220> FEATURE:
  54 <221> NAME/KEY: misc_feature
  55 <222> LOCATION: (45)..(45)
  56 <223> OTHER INFORMATION: n is any of a, g, c and u
  58 <400> SEQUENCE: 1
W--> 59 cgugygnagg yanaaaacnu aarwccgaag guaaccawuc cuacnacg          48
```

```
 62 <210> SEQ ID NO: 2
 63 <211> LENGTH: 47
 64 <212> TYPE: RNA
 65 <213> ORGANISM: Artificial
.67 <220> FEATURE:
 68 <221> NAME/KEY: misc_feature
 69 <223> OTHER INFORMATION: ghrelin binder L-NOX-B11
 72 <400> SEQUENCE: 2
 73 cgugugaggc aauaaaacuu aaguccgaag guaaccaauc cuacacg          47
 75 <210> SEQ ID NO: 3
 76 <211> LENGTH: 47
 77 <212> TYPE: RNA
 78 <213> ORGANISM: Artificial
 80 <220> FEATURE:
 81 <221> NAME/KEY: misc_feature
 82 <223> OTHER INFORMATION: ghrelin binder L-NOX-G2
 84 <400> SEQUENCE: 3
 85 cgugugaggc aguaaaacuu aaguccgaag guaaccaauc cuacacg          47
 88 <210> SEQ ID NO: 4
 89 <211> LENGTH: 47
 90 <212> TYPE: RNA
 91 <213> ORGANISM: Artificial
 93 <220> FEATURE:
 94 <221> NAME/KEY: misc_feature
 95 <223> OTHER INFORMATION: ghrelin binder L-NOX-E12
 98 <400> SEQUENCE: 4
 99 cgugugaggc aauaaaacuu aaguccgaag guaaccaauc cugcacg          47
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 47
103 <212> TYPE: RNA
104 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <223> OTHER INFORMATION: ghrelin binder L-NOX-B7
111 <400> SEQUENCE: 5
112 cgugugaggc aauaaaacau aaguccgaag guaaccaauc cuacacg          47
114 <210> SEQ ID NO: 6
115 <211> LENGTH: 47
116 <212> TYPE: RNA
117 <213> ORGANISM: Artificial
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <223> OTHER INFORMATION: ghrelin binder L-NOX-A8
123 <400> SEQUENCE: 6
124 cgugugaggc aauaaaacgu aaguccgaag guaaccaauc cuacacg          47
127 <210> SEQ ID NO: 7
128 <211> LENGTH: 49
129 <212> TYPE: RNA
130 <213> ORGANISM: Artificial
```

RAW SEQUENCE LISTING   DATE: 05/19/2006
PATENT APPLICATION: US/10/578,938   TIME: 08:47:22

Input Set : A:\14167-2 US Sequence Listing.txt
Output Set: N:\CRF4\05192006\J578938.raw

```
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <223> OTHER INFORMATION: ghrelin binder L-NOX-B12
136 <400> SEQUENCE: 7
137 cgugugaggc aauaaaacuu guaaguccga agguaaccaa uccuacacg           49
140 <210> SEQ ID NO: 8
141 <211> LENGTH: 48
142 <212> TYPE: RNA
143 <213> ORGANISM: Artificial
145 <220> FEATURE:
146 <221> NAME/KEY: misc_feature
147 <223> OTHER INFORMATION: ghrelin binder L-NOX-E3
149 <400> SEQUENCE: 8
150 cgugugaggc aauaaaaacu uaaguccgaa gguaaccaau ccuacacg            48
153 <210> SEQ ID NO: 9
154 <211> LENGTH: 50
155 <212> TYPE: RNA
156 <213> ORGANISM: Artificial
158 <220> FEATURE:
159 <221> NAME/KEY: misc_feature
160 <223> OTHER INFORMATION: ghrelin binder L-NOX-C12
162 <400> SEQUENCE: 9
163 cgugcgguga ggcaaaaacg uaagaccgaa gguaaccauu ccuacccacg          50
166 <210> SEQ ID NO: 10
167 <211> LENGTH: 50
168 <212> TYPE: RNA
169 <213> ORGANISM: Artificial
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <223> OTHER INFORMATION: ghrelin binder L-NOX-C11
175 <400> SEQUENCE: 10
176 cgugugaggu aguaaaaaaa cguaaauccg aagguaacca auccuacacg          50
178 <210> SEQ ID NO: 11
179 <211> LENGTH: 53
180 <212> TYPE: RNA
181 <213> ORGANISM: Artificial
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <223> OTHER INFORMATION: ghrelin binder L-NOX-A3
187 <400> SEQUENCE: 11
188 cgugugaggu aguaaaaaaa aaacguaaau ccgaagguaa ccaauccuac acg      53
191 <210> SEQ ID NO: 12
192 <211> LENGTH: 54
193 <212> TYPE: RNA
194 <213> ORGANISM: Artificial
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <223> OTHER INFORMATION: ghrelin binder L-NOX-F5
200 <400> SEQUENCE: 12
```

```
201 cgugugaggu aguaaaaaaa aaaacguaaa uccgaaggua accaguccua cacg          54
204 <210> SEQ ID NO: 13
205 <211> LENGTH: 55
206 <212> TYPE: RNA
207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <221> NAME/KEY: misc_feature
211 <223> OTHER INFORMATION: ghrelin binder L-NOX-A12
213 <400> SEQUENCE: 13
214 cgugugaggu aguaaaaaaa aaaaacguaa auccgaaggu aaccaauccu acacg          55
217 <210> SEQ ID NO: 14
218 <211> LENGTH: 56
219 <212> TYPE: RNA
221 <213> ORGANISM: Artificial
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature
225 <223> OTHER INFORMATION: ghrelin binder L-NOX-F12
227 <400> SEQUENCE: 14
228 cgugugaggu aguaaaaaaa aaaaaacgua aauccgaagg uaaccaaucc uacacg         56
231 <210> SEQ ID NO: 15
232 <211> LENGTH: 59
233 <212> TYPE: RNA
234 <213> ORGANISM: Artificial
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <223> OTHER INFORMATION: ghrelin binder L-NOX-G5
240 <400> SEQUENCE: 15
241 cgugugaggu aguaaaaaaa aaaaaaaaac auaaauccga agguaaccaa uccuacacg      59
244 <210> SEQ ID NO: 16
245 <211> LENGTH: 28
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapiens
249 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <223> OTHER INFORMATION: human ghrelin
253 <400> SEQUENCE: 16
255 Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
256 1               5               10                  15
259 Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
260             20              25
263 <210> SEQ ID NO: 17
264 <211> LENGTH: 10
265 <212> TYPE: PRT
266 <213> ORGANISM: Homo sapiens
268 <220> FEATURE:
269 <221> NAME/KEY: misc_feature
270 <223> OTHER INFORMATION: amino acids 1 to 10 of human ghrelin
272 <400> SEQUENCE: 17
273 Gly Ser Ser Phe Leu Ser Pro Glu His Gln
```

```
274 1              5               10
277 <210> SEQ ID NO: 18
278 <211> LENGTH: 5
279 <212> TYPE: PRT
280 <213> ORGANISM: Homo sapiens
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
284 <223> OTHER INFORMATION: amino acids 1 to 5 of human ghrelin
286 <400> SEQUENCE: 18
287 Gly Ser Ser Phe Leu
288 1              5
291 <210> SEQ ID NO: 19
292 <211> LENGTH: 28
293 <212> TYPE: PRT
294 <213> ORGANISM: rat
296 <220> FEATURE:
297 <221> NAME/KEY: misc_feature
298 <223> OTHER INFORMATION: rat ghrelin
300 <400> SEQUENCE: 19
301 Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Ala Gln Gln Arg Lys
302 1              5               10              15
304 Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
305              20              25
308 <210> SEQ ID NO: 20
309 <211> LENGTH: 17
310 <212> TYPE: RNA
311 <213> ORGANISM: Artificial
313 <220> FEATURE:
314 <221> NAME/KEY: misc_feature
315 <223> OTHER INFORMATION: 5' flank sequence
317 <400> SEQUENCE: 20
318 ggagcucaga cuucacu                                              17
321 <210> SEQ ID NO: 21
322 <211> LENGTH: 18
323 <212> TYPE: RNA
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <221> NAME/KEY: misc_feature
328 <223> OTHER INFORMATION: 3' flank sequence
330 <400> SEQUENCE: 21
331 uaccacuguc gguuccac                                             18
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/19/2006
PATENT APPLICATION: US/10/578,938   TIME: 08:47:23

Input Set : **A:\14167-2 US Sequence Listing.txt**
Output Set: **N:\CRF4\05192006\J578938.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 7,13,19,45

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,20,21

VERIFICATION SUMMARY   DATE: 05/19/2006
PATENT APPLICATION: **US/10/578,938**   TIME: 08:47:23

Input Set : **A:\14167-2 US Sequence Listing.txt**
Output Set: **N:\CRF4\05192006\J578938.raw**

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0